

APPENDIX F

PRE-EXCAVATION SAMPLING 2005, DEAD CREEK SEGMENT B INFORMATION

TABLE 1
SUMMARY OF DETECTED ANALYTES
DEAD CREEK SEGMENT B CREEK BOTTOM SOIL SAMPLING
SAUGET AREA 1
SAUGET, ILLINOIS

	UNITS	RBC Screening Value	T00+00 C (1-2)	T00+00 C (2-3)	T00+00 C (3-4)	T00+00 C (4-5)	T00+25 C (0-1)	T00+25 C (1-2)	T00+25 C (2-3)	T00+25 C (3-4)	T00+25 C (4-5)	T0+50C (0-1)	T0+50C (1-2)	T0+50C (2-3)	T0+50C (3-4)	T0+50C (4-5)
Sample Date			5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/18/2005	5/12/2005	5/12/2005	5/12/2005	5/12/2005	5/12/2005	
ANALYTE																
Metals																
Zinc	mg/Kg	4739	740	800	75	45	280	91	100	81	86	300	94	44	130	46
Mercury	mg/Kg	0.18	0.1	0.04	0.032	0.013 J	0.047	0.051	0.056	0.033	0.056	0.039	0.036	0.022 J	0.017 J	0.023 J
PCBs																
PCB-1016	ug/Kg		87 U	43 U	47 U	42 U	48 U	45 U	58 U	46 U						
PCB-1221	ug/Kg		180 U	88 U	96 U	86 U	97 U	91 U	120 U	94 U						
PCB-1248	ug/Kg		820 J	160 J	47 U	42 U	370	90	100	61 P						
PCB-1232	ug/Kg		550 JP		43 U	47 U	42 U	48 U	45 U	58 U	46 U					
PCB-1254	ug/Kg		950 JP	170 JP	34 JP	22 JP	440	120	77 P	140						
PCB-1242	ug/Kg		87 U	43 U	47 U	42 U	48 U	45 U	58 U	46 U						
PCB-1260	ug/Kg		680 J	130 J	29 JP	20 J	320	120	130	160						
PCB-1268	ug/Kg		160 J	43 J	47 U	42 U	100	15 JP	58 U	24 JP						
Total Detected PCBs	ug/Kg	580	3160	503	63	42	1230	345	307	385						

	UNITS	RBC Screening Value	T0+75E (1-2)	T0+75E (2-3)	T1+00E (1-2)
Sample Date			5/12/2005	5/12/2005	5/12/2005
ANALYTE					
PCBs	ug/Kg				
PCB-1016	ug/Kg		52 U	44 U	51 U
PCB-1221	ug/Kg		110 U	90 U	100 U
PCB-1248	ug/Kg		52 U	44 U	51 U
PCB-1232	ug/Kg		52 U	44 U	51 U
PCB-1254	ug/Kg		52 U	44 U	35 J P
PCB-1242	ug/Kg		52 U	44 U	51 U
PCB-1260	ug/Kg		21 J	18 J	27 J
PCB-1268	ug/Kg		52 U	44 U	51 U
Total PCBs	ug/Kg	580	21	18	62

	UNITS	RBC Screening Value	T1+75E (0-1)	T1+75E (1-2)	T1+75E (2-3)	T1+75E (3-4)	T1+75E (4-5)	T2+0E 1-2	T2+0E 2-3	T2+0E 3-4	T2+0E 4-5	T2+25E 0-1	T2+25E 1-2	T2+25E 2-3	T2+25E 3-4	T2+25E 4-5
Sample Date			5/12/2005	5/12/2005	5/12/2005	5/12/2005	5/12/2005	5/13/2005	5/13/2005	5/13/2005	5/13/2005	5/13/2005	5/13/2005	5/13/2005	5/13/2005	5/13/2005
ANALYTE																
Metals																
Mercury	mg/Kg	0.18	0.051	0.053	0.029	0.027 J	0.015 J	0.13	0.028	0.099	0.018 J	0.053	0.059	0.032	0.056	0.015 J

Notes:

Bold - Detected Constituents

J - Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

U - Analyte was not detected above the reporting limit

P - The lower of the two values is reported when the % difference between

D - Surrogate or matrix spike recoveries were not obtained because the extract

Results are shown for detected analytes only unless the detection limit was above the RBC screening value. PCB results are shown for all analytes if one analyte was detected.

Yellow Highlighting indicates result was greater than RBC screening value

TABLE 1
SUMMARY OF DETECTED ANALYTES
DEAD CREEK SEGMENT B CREEK BOTTOM SOIL SAMPLING
SAUGET AREA 1
SAUGET, ILLINOIS

	UNITS	RBC Screening Value	T4+75E (0-1)	T4+75E (3-4)	T5+00E (1-2)
Sample Date			5/10/2005	5/10/2005	5/10/2005
ANALYTE					
PCBs	ug/Kg				
PCB-1016	ug/Kg		48 U	48 U	46 U
PCB-1221	ug/Kg		97 U	97 U	93 U
PCB-1248	ug/Kg		48 U	48 U	46 U
PCB-1232	ug/Kg		48 U	48 U	46 U
PCB-1254	ug/Kg		48 U	48 U	62
PCB-1242	ug/Kg		48 U	48 U	46 U
PCB-1260	ug/Kg		65	30 J	24 J
PCB-1268	ug/Kg		48 U	48 U	46 U
Total PCBs	ug/Kg	580	65	30	86

Notes:

Bold - Detected Constituents

J - Result is less than the reporting limit but greater than 0.

U - Analyte was not detected above the reporting limit

P - The lower of the two values is reported when the % difference between the results of two GC columns is greater than 40%

D - Surrogate or matrix spike recoveries were not obtained

Results are shown for detected analytes only unless the detection limit was above [redacted] MUL. MUL is the default detection limit in the RRS.

 Yellow Highlighting indicates result was greater than RBC screening value

TABLE 1
SUMMARY OF DETECTED ANALYTES
DEAD CREEK SEGMENT B CREEK BOTTOM SOIL SAMPLING
SAUGET AREA 1
SAUGET, ILLINOIS

Notes:

Bold - Detected Constituents

J - Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

U - Analyte was not detected above the reporting limit

P - The lower of the two values is reported when the % difference between the results of two GC columns is greater than 40%

P - The lower of the two values is reported when the % difference between the results of two GC columns is greater than 40%.
D - Surrogate or matrix spike recoveries were not obtained because the extract

D - Surrogate or matrix spike recoveries were not obtained because the extract was too small.

Results are shown for detected analytes only unless the detection limit was above the RBC screening value. PCB results are shown for all analytes if one analyte was detected.

Yellow Highlighting indicates result was greater than RBC screening values

TABLE 1
SUMMARY OF DETECTED ANALYTES
DEAD CREEK SEGMENT B CREEK BOTTOM SOIL SAMPLING
SAUGET AREA 1
SAUGET, ILLINOIS

	UNITS	RBC Screening Value	T11+75C (0-1)	T11+75C (1-2)	T11+75C (2-3)	T11+75C (3-4)	T11+75C (4-5)	T12+00C (1-2)	T12+00C (2-3)	T12+00C (3-4)	T12+00C (4-5)	T12+25 C (0-1)	T12+25 C (1-2)	T12+25 C (2-3)	T12+25 C (3-4)	T12+50 C (0-1)	T12+50 C (1-2)	T12+50 C (2-3)	T12+50 C (3-4)	T12+50 C (4-5)	
Sample Date			5/11/2005	5/11/2005	5/11/2005	5/11/2005	5/11/2005	5/11/2005	5/11/2005	5/11/2005	5/11/2005	5/17/2005	5/17/2005	5/17/2005	5/17/2005	5/17/2005	5/17/2005	5/17/2005	5/17/2005	5/17/2005	
ANALYTE																					
Metals																					
Zinc	mg/Kg	4739	3400	120	71	73	64	2700	91	210	47	230	330	53	120	55	80	52	44	56	59
Mercury	mg/Kg	0.18	0.054	0.049	0.028	0.028	0.028	0.064	0.037	0.029	0.024 J	0.048	0.032	0.031	0.03	0.032	0.032	0.032	0.026 J	0.026	0.045

Notes:

Bold - Detected Constituents

J - Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value

U - Analyte was not detected above the reporting limit

P - The lower of the two values is reported when the % difference between the results of two GC columns is greater than 40%

D - Surrogate or matrix spike recoveries were not obtained because the extract

Results are shown for detected analytes only unless the detection limit was above [REDACTED] M.L. M.L. M.L. the following results are given for the PBC samples.

 Yellow Highlighting indicates result was greater than RBC screening value



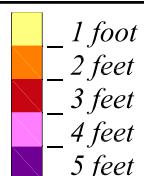
Queeny Avenue



LEGEND

- = Piezometer
- = Concrete Monument
- = 2002 Sampling Locations
- = May 2005 Sampling Locations
- X — = Fenceline
- P — = Pipeline

MAXIMUM DEPTH OF RBC EXCEEDENCE



SCALE
1" to 140' FEET

Judith Lane

NOTES:

- Coordinates and elevations based on storm water outlet (invert) located on South side of Queeny Avenue.
N: 700195.15 E: 2295072.71
Elev: 397.67'
This information provided by Solutia,
and is from work performed by others.
- Contours are at 1.0 foot intervals.

Original Map Provided By Zahner & Associates, Inc.

CREEK BOTTOM SOIL SAMPLING LOCATIONS AND RBC EXCEEDENCES

PROJECT

SAUGET AREA 1
2005 DEAD CREEK SEGMENT B
SOIL SAMPLING
Sauget, Illinois

FIGURE

1

PROJECT No. 043-9670
FILE No. 04396704001
REV. 1 SCALE AS SHOWN
DESIGN MNH 7/8/05
CADD PGU 8/26/05
CHECK MNH 8/26/05
REVIEW MNH 8/26/05

Golder Associates
St. Louis, Missouri